

A service of the U.S. National Library of Medicine
and the National Institutes of HealthMy NCBI [?]
 [Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for "Viral Immunology"[Jour] AND 14[volume] AND 95 [Go] [Clear] Advanced Search
Save Search

Limits Preview/Index History Clipboard Details

Display AbstractPlus Show 20 Sort By Send to
All: 1 Review: 1

1: Viral Immunol. 2001;14(2):95-109.

Many Annotations Links

Tsl and LP-BM5: a comparison of two murine retrovirus models for HIV.

Clark S, Duggan J, Chakraborty J.

Department of Physiology and Molecular Medicine, Medical College of Ohio, Toledo 43614-5804, USA.

The ts1 murine leukemia virus produces an immunodeficiency state in mice that parallels human immunodeficiency virus (HIV) infection in humans. Other murine leukemia viruses, such as LP-BM5 used in the murine acquired immune deficiency virus (MAIDS) model, have been studied extensively as a small animal model for HIV research, but lack many key similarities to HIV. Mice infected with ts1, however, utilize CD4 target cells for infection, undergo neuronal loss and demyelination, and develop clinical immunodeficiency. These features make this retrovirus in many ways an ideal candidate for a small animal model for HIV research. In this review article, the early development, the molecular and clinical pathogenesis of both the ts1 mutant of the Moloney murine leukemia virus and LP-BM5 are examined. Based on an extensive evaluation of the literature on LP-BM5 and ts1, it is concluded that the ts1 virus may serve as a better animal model to human retrovirus infection.

PMID: 11398815 [PubMed - indexed for MEDLINE]

Related articles

Accelerated progression of a murine retrovirus-induced immunodeficiency syndrome in [Masobubine 05PBL1997]

Effects of LP-BM5 murine leukemia virus infection on errors and response time in a two-choice [Barnett 0002]

Quinolinic acid levels in a murine retrovirus-induced immunodeficiency syndrome. [J Neurochem. 1998]

Review Murine AIDS, a key to understanding retrovirus-induced immunodeficiency [Viral Immunol. 1998]

Review Murine models for acquired immune deficiency syndrome. [Life Sci. 1989]

> See reviews... > See all...

Cited by 3 PubMed Central articles

Review The roles of HIV-1 proteins and antiretroviral drug therapy in HIV-1-associated [Adams 0001] Med. 2008]

Retrovirus-induced oxidative stress with neuroimmunodegeneration is suppressed by [Hirobe 0005]

Activation of transcription factor Nrf-2 and its downstream targets in response to moloney [Nishida 0004]

Recent Activity

Turn Off Clear

Tsl and LP-BM5: a comparison of two murine retrovirus models for HIV.

"Viral Immunology"[Jour]... (1)

PubMed

Display AbstractPlus Show 20 Sort By Send to

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer